

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Patent Application

Inventor(s) Leon Bottou  
Patrick Guy Haffner

Docket No. 2001-0061

Serial No.

Filing Date

Examiner

Title Method And System For Classifying Image Elements

COMMISSIONER FOR PATENTS  
WASHINGTON, D. C. 20231

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR 1.97(b), the enclosed Information Disclosure Statement, with attached reference(s), is submitted for consideration in the above-identified application.

A copy of each of the listed documents is enclosed.

In accordance with 37 CFR § 1.97(h), by filing this Information Disclosure Statement, Applicants are not admitting that the information cited in the Statement is, or is considered to be, material to the patentability as defined in § 1.56(b).

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Respectfully,

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Date: Jan, 24, 2002

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	Not assigned
Filing Date	
First Named Inventor	Leon Bottou et al.
Group Art Unit	Not assigned
Examiner Name	Not assigned
Attorney Docket Number	2001-0061

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,900,953		BOTTOU et al	05/04/99	
		6,263,091	B1	JAIN et al.	07/17/01	
		5,335,290		CULLEN et al.	08/02/94	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Bottou et al, "High Quality Document Image Compression with "DjVu", <i>Journal of Electronic Imaging</i> , Vol. 7, No. 3, July 1998, pages 410-425	
		Bottou et al, "Lossy Compression of Partially Masked Still Images", Proceedings DCC '98, Data Compression Conference, Snowbird, Utah, IEEE Computer Society Technical Comm. on Computer Communications, March 30-April 1, 1998, page 28	
		Haffner et al, "DjVu: Analyzing and Compressing Scanned Documents for Internet Distribution", ICDAR '99, IEEE Computer Society, Bangalore, India, September 20-22, 1999, pages 625-628	
		Mixed Raster Content (MRC), Series T: Terminals for Telematic Services, International Telecommunication Union, ITU-T, Telecommunication Standardization Sector of ITU, T.44, April 1999	
		Bottou et al, "Efficient Conversion of Digital Documents to Multilayer Raster Formats", Proceedings of the Sixth International Conference on Document Analysis and Recognition, Sponsored by IAPR, Seattle, Washington, September 10-13, 2001, pages 444-448	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.